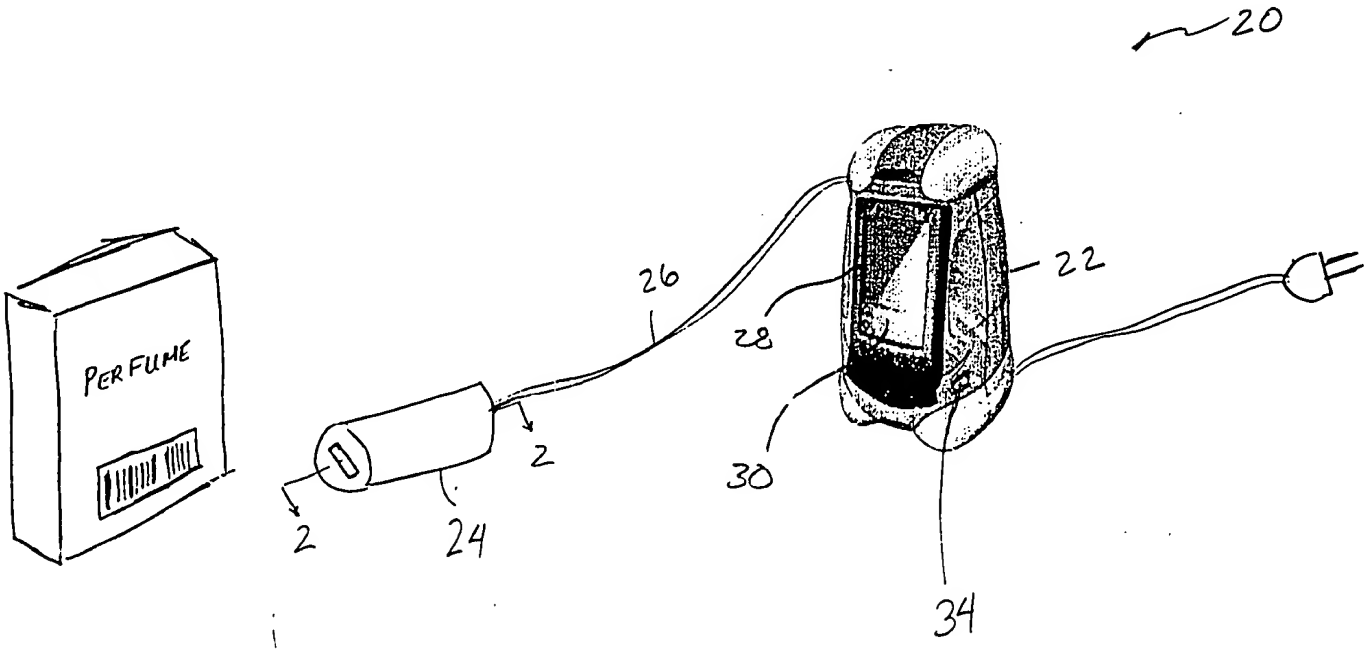

FIG. 1

09356260.042400

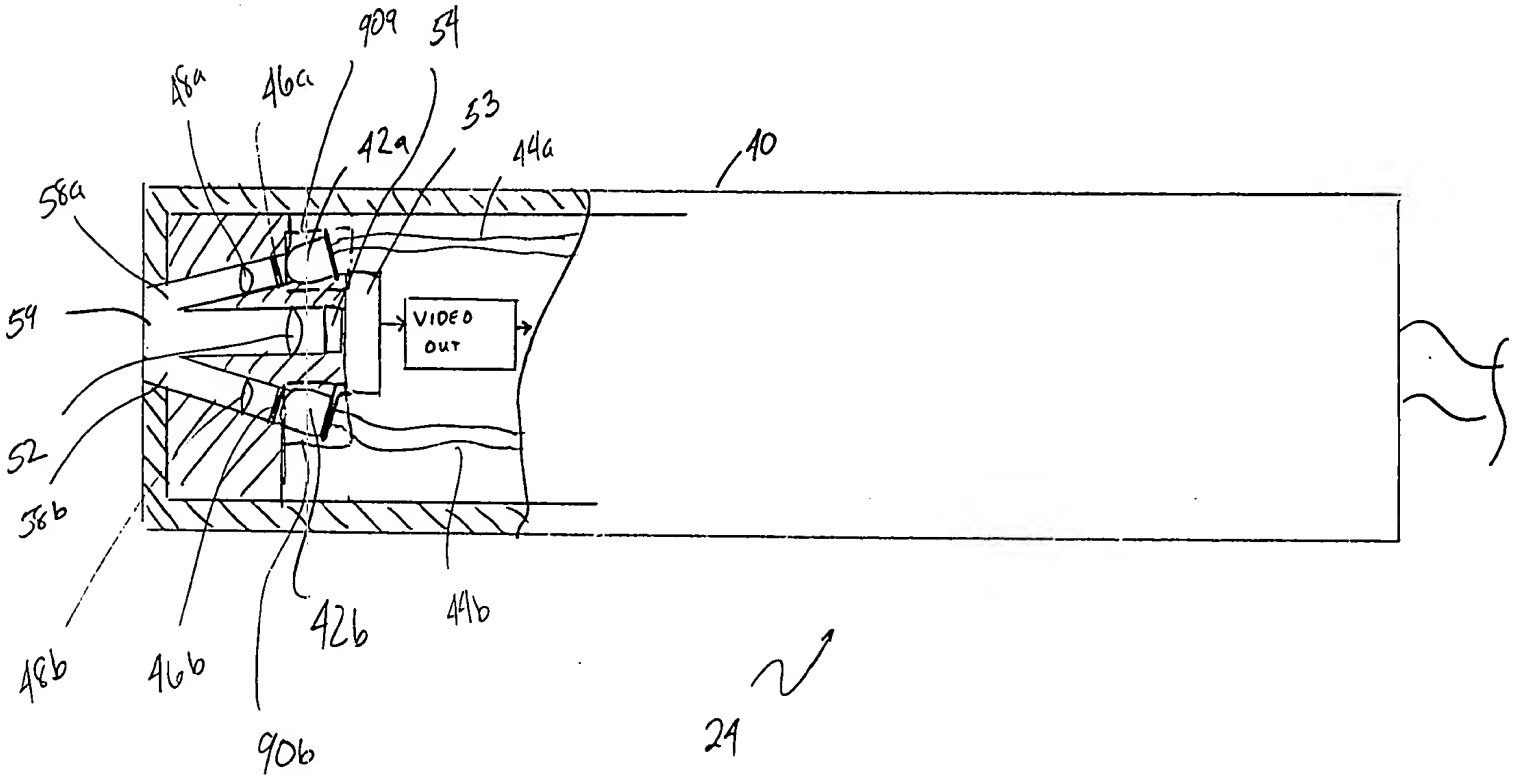

FIG. 2

09556280.042402

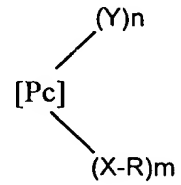

Fig. 3

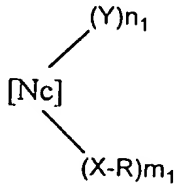

Fig. 4

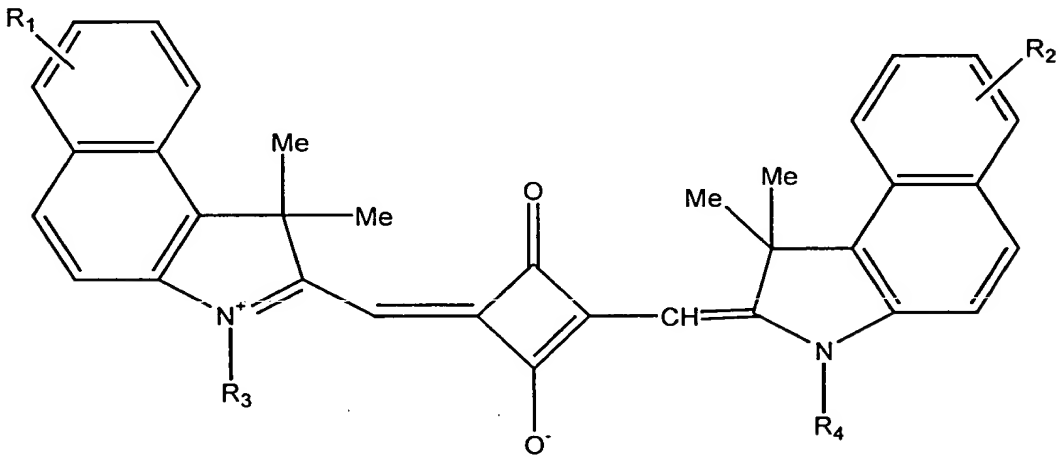

Fig. 5

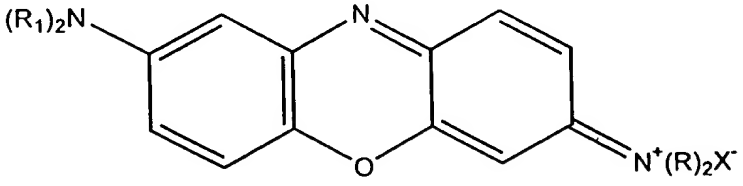

Fig. 6

09/05/2005 03:02:03

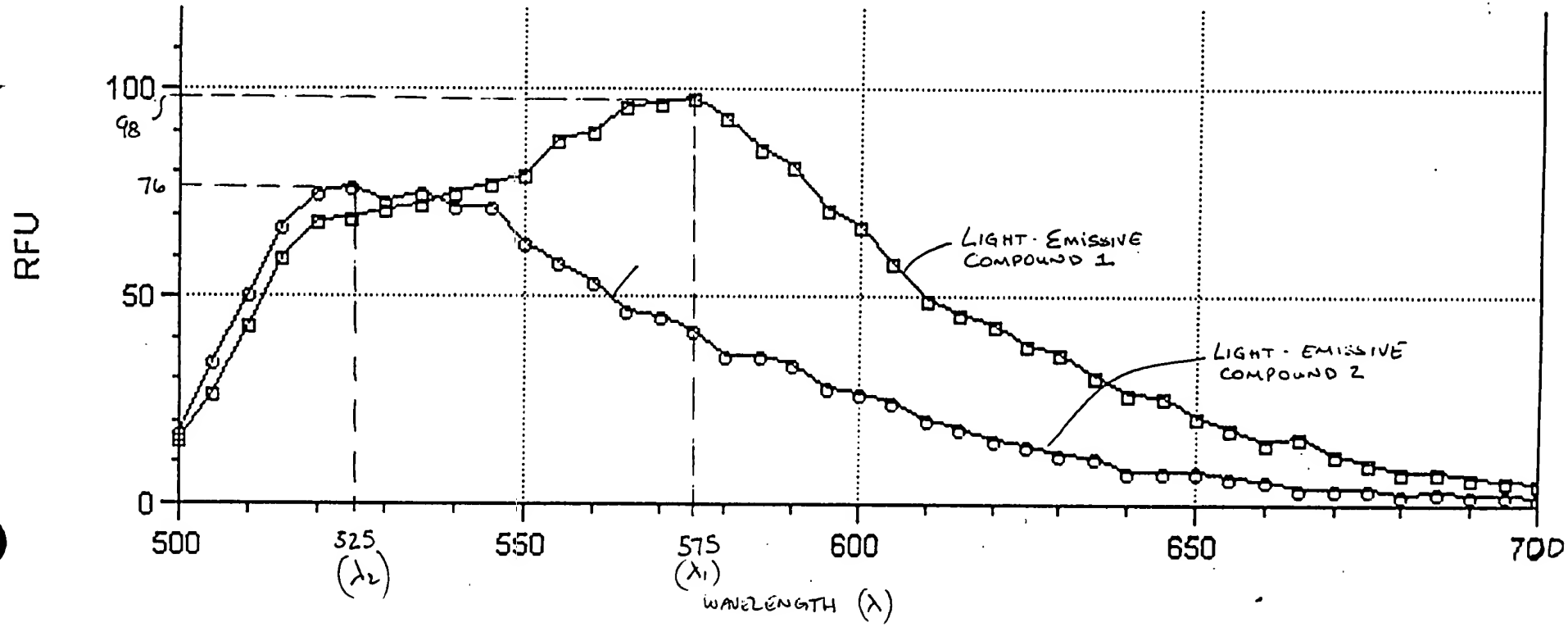

FIG. 7

09856260.042400

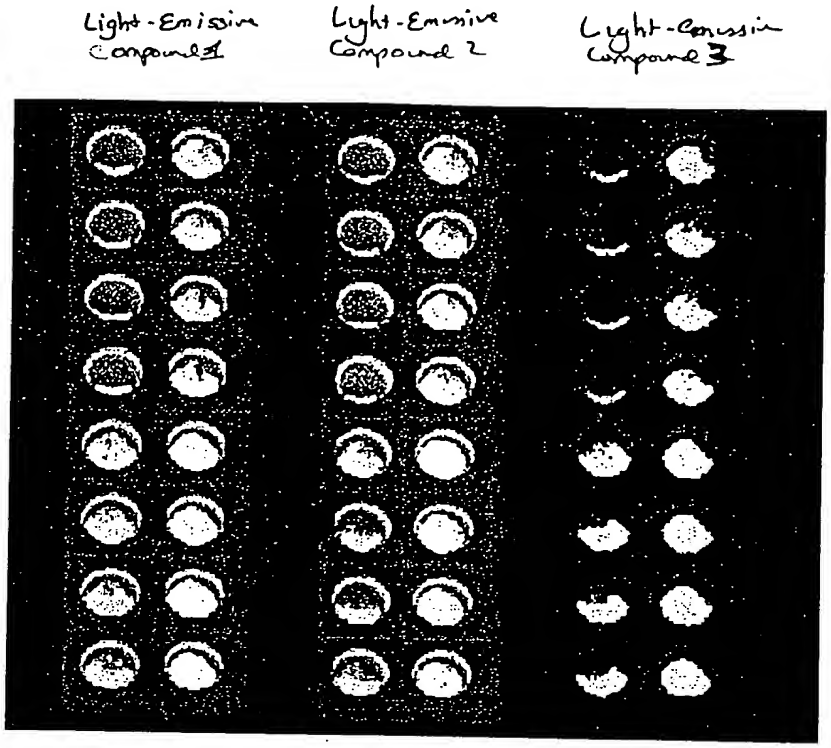
Light-Emissive Compound 1
Light-Emissive Compound 2
Light-Emissive Compound 3

FIG. 8

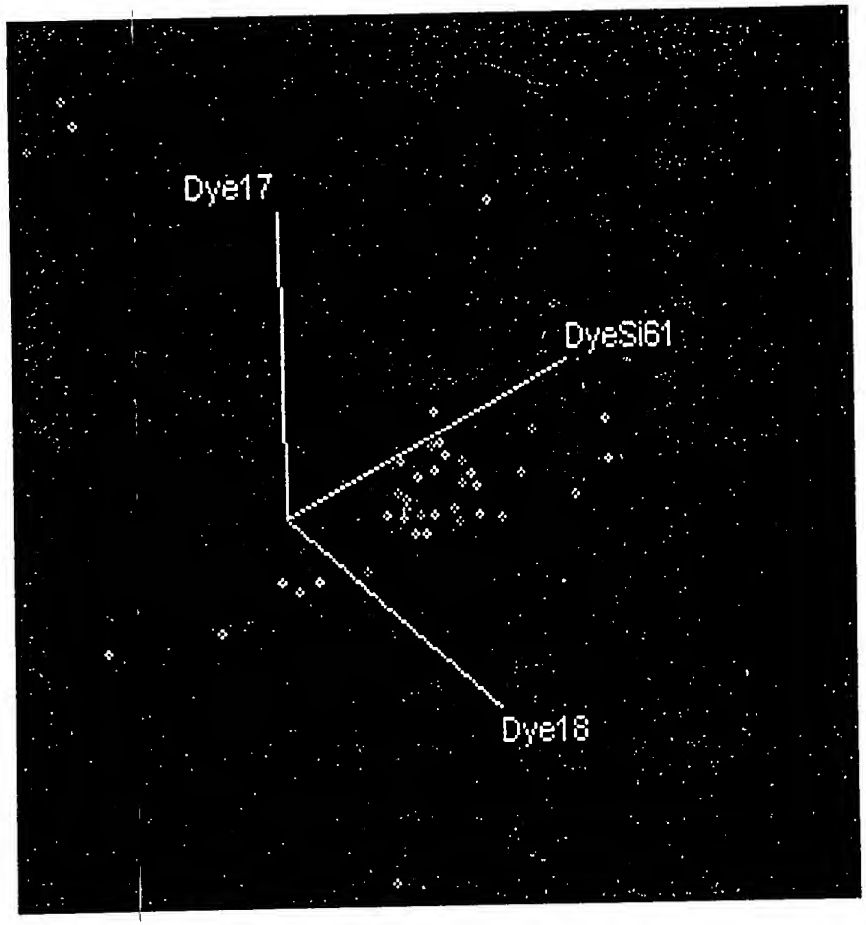

FIG. 9

09536230 . 042406

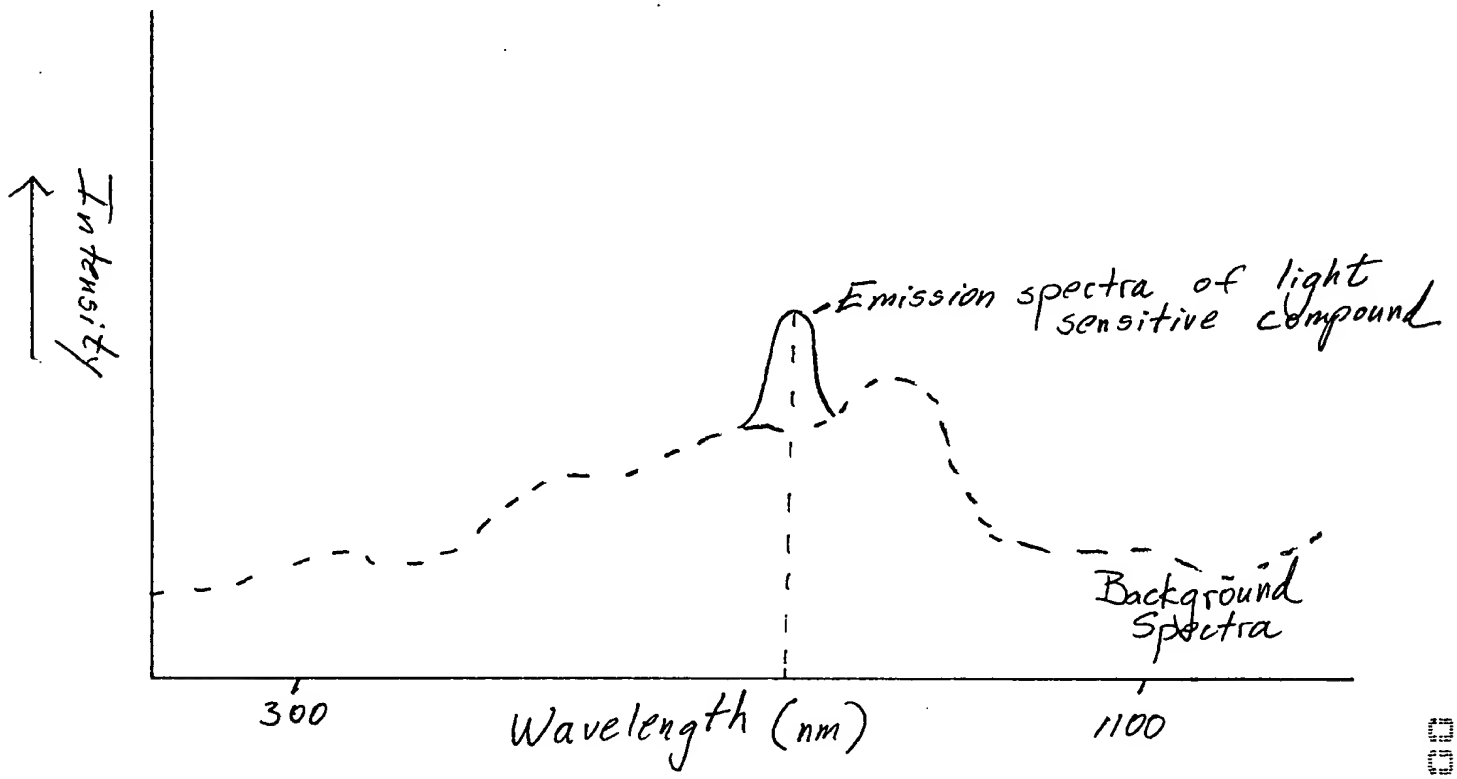
Intensity
Emission spectra of light sensitive compound
Background Spectra
300
Wavelength (nm)
1100

FIG. 10

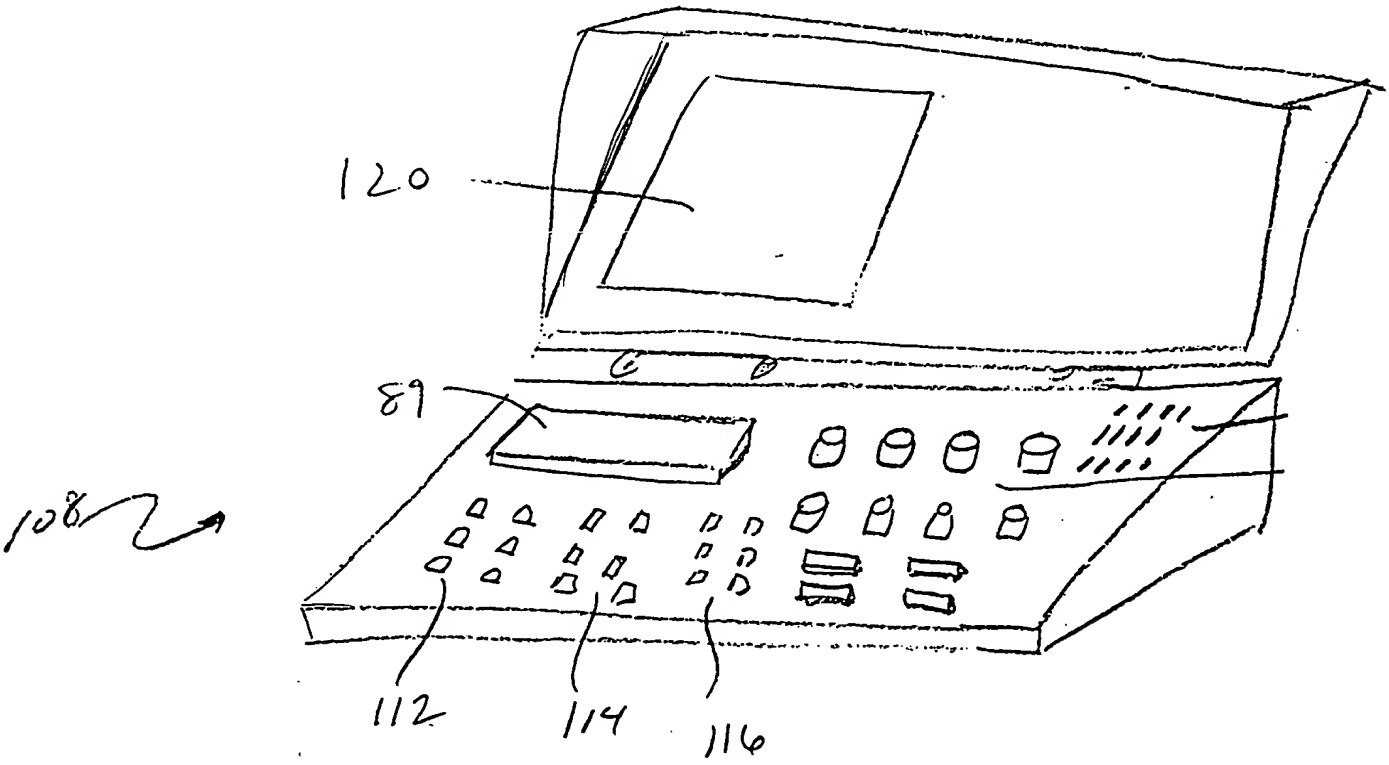
120
89
108
112
114
116

FIG. 11

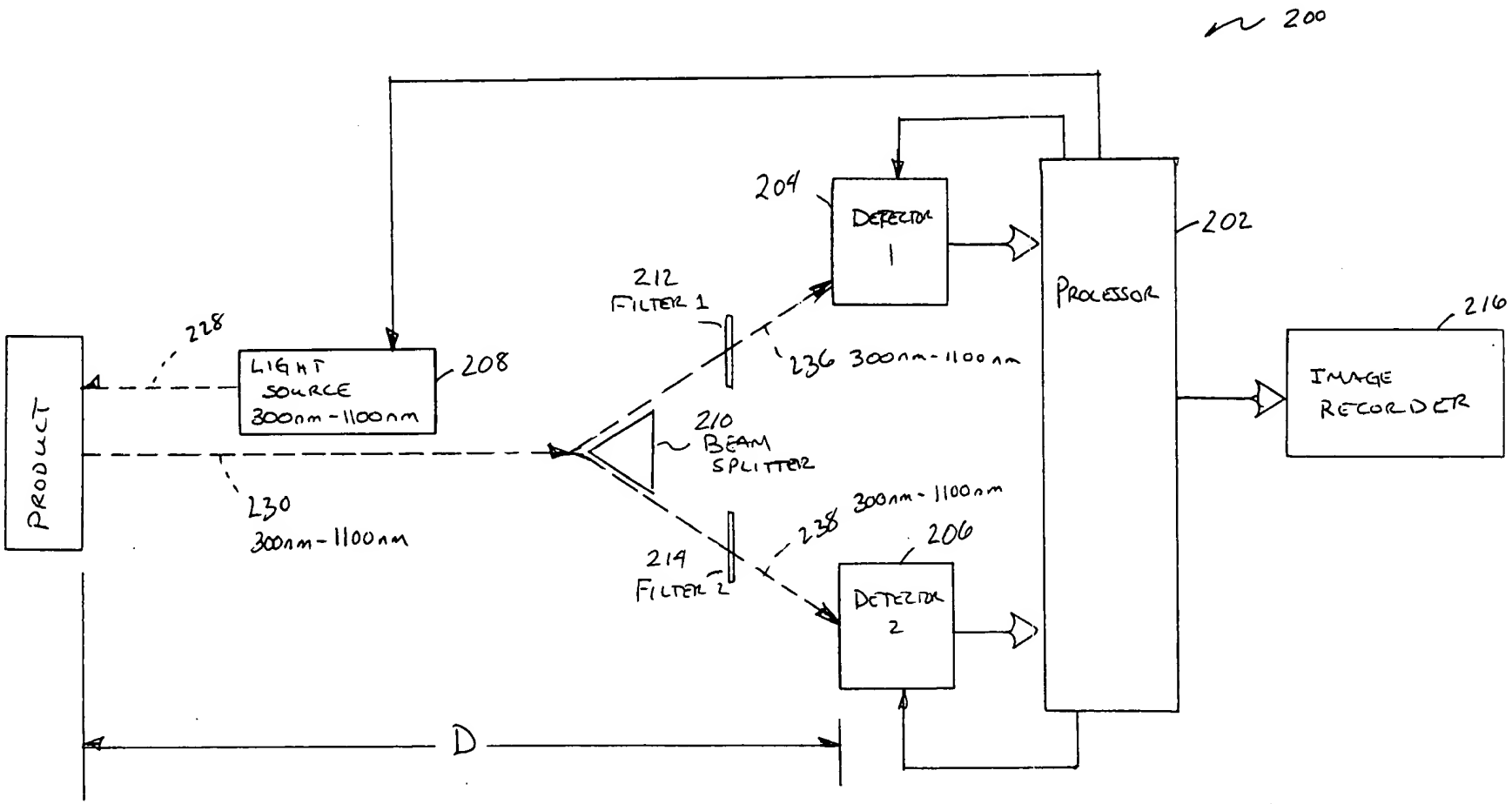
200
204
DETECTOR 1
202
PROCESSOR
212
FILTER 1
216
IMAGE RECORDER
228
LIGHT SOURCE 300nm-1100nm
208
PRODUCT
236 300nm-1100nm
210
BEAM SPLITTER
230
300nm-1100nm
238 300nm-1100nm
206
214
FILTER 2
DETECTOR 2
D

FIG. 12

System Block Diagram

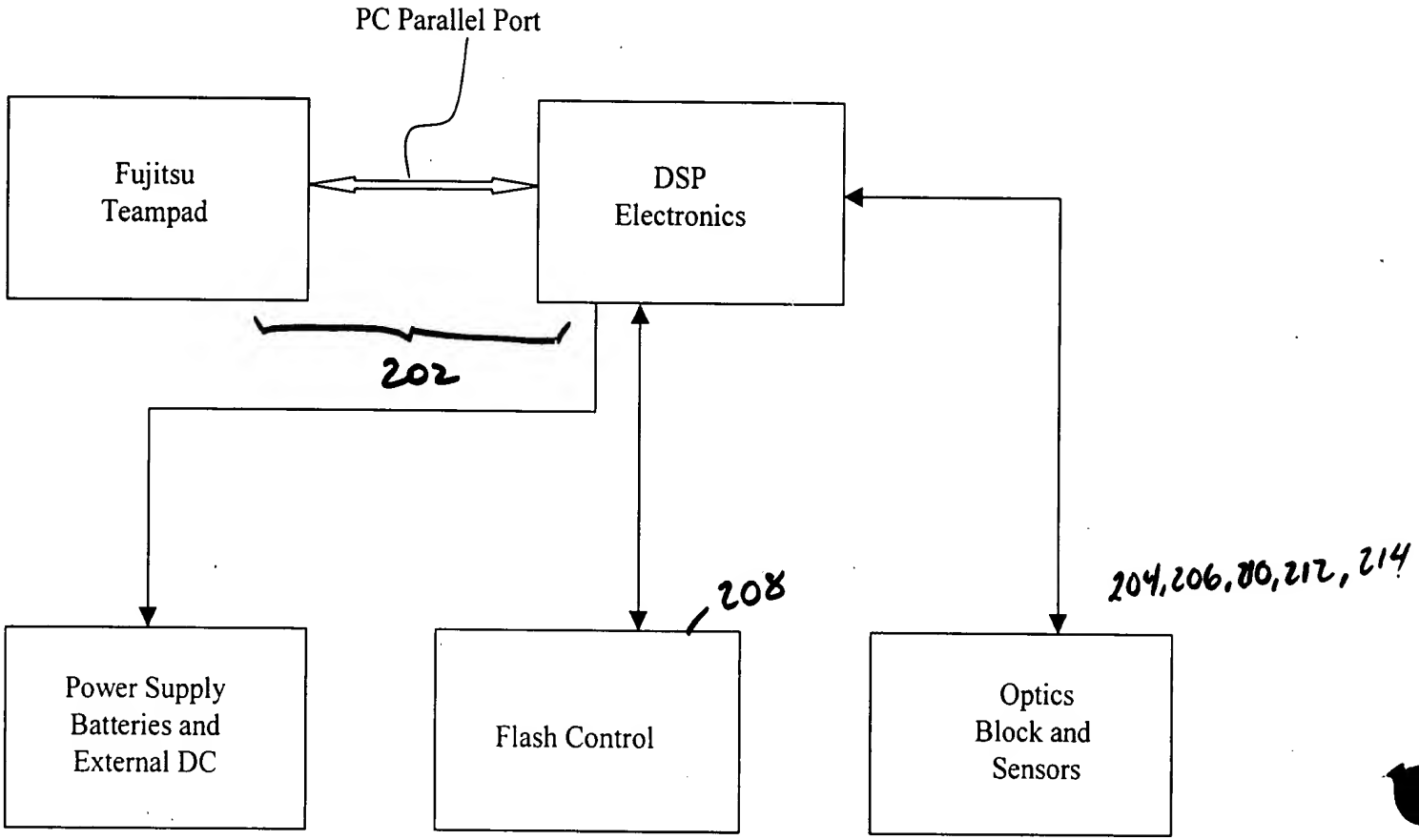

FIG. 13

Optics Block

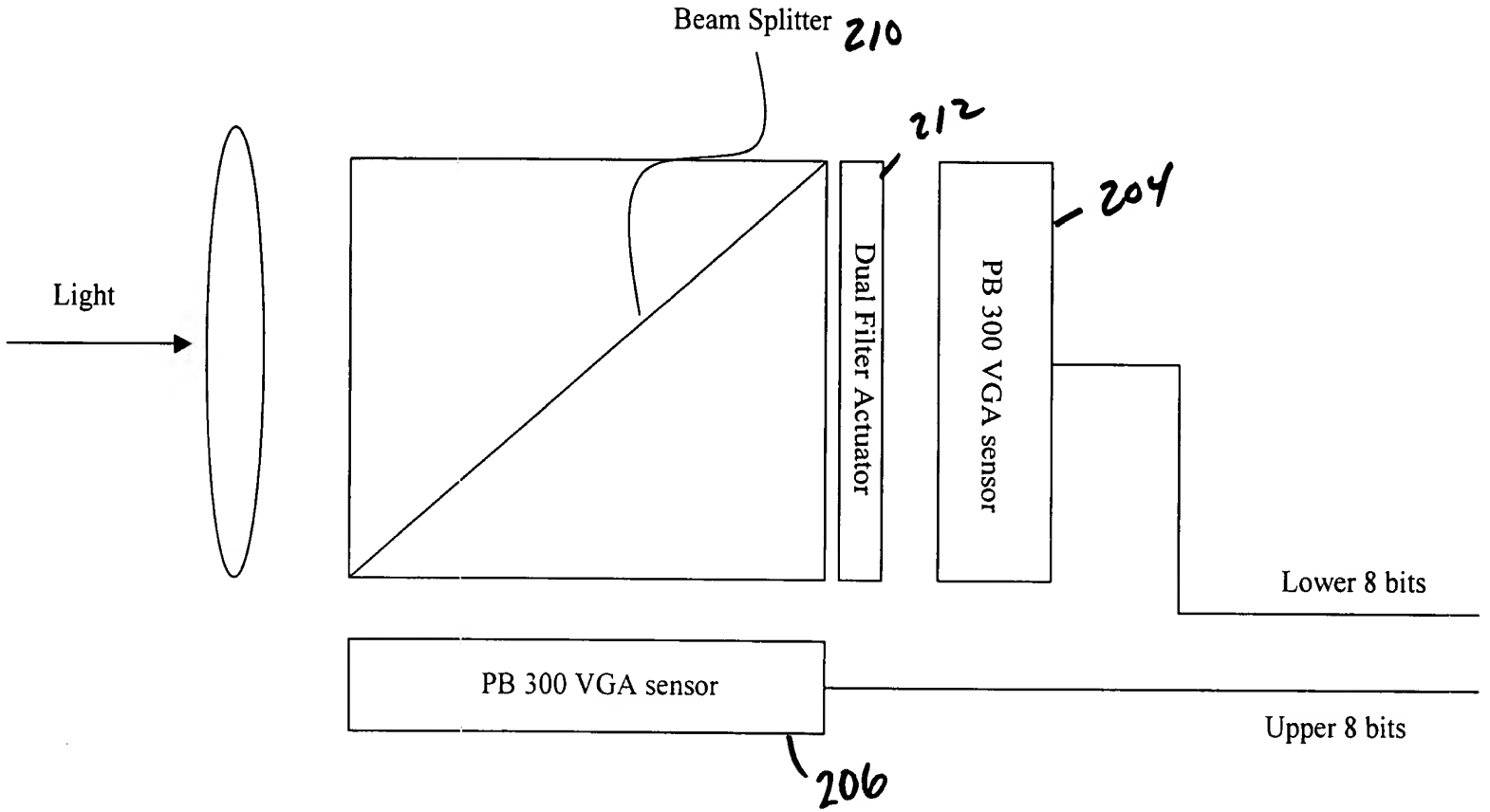

FIG. 9/14

Dual Filter Actuator

The filter assembly is moved by the trigger so that the position detector is actuated. At the point that the filter is fully in position the proper filter is covering the PB300 sensor and the image is captured on the 2 sensors simultaneously.

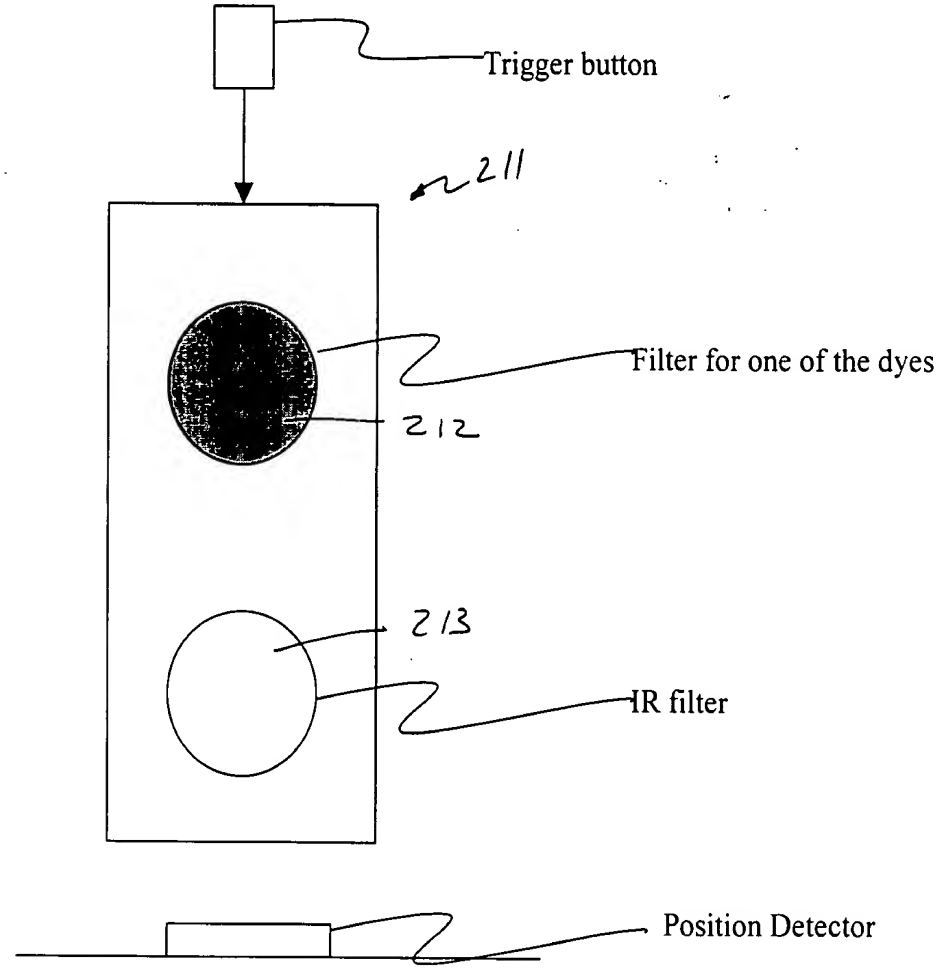

FIG. 15

09556280 - 042400

DSP Electronics

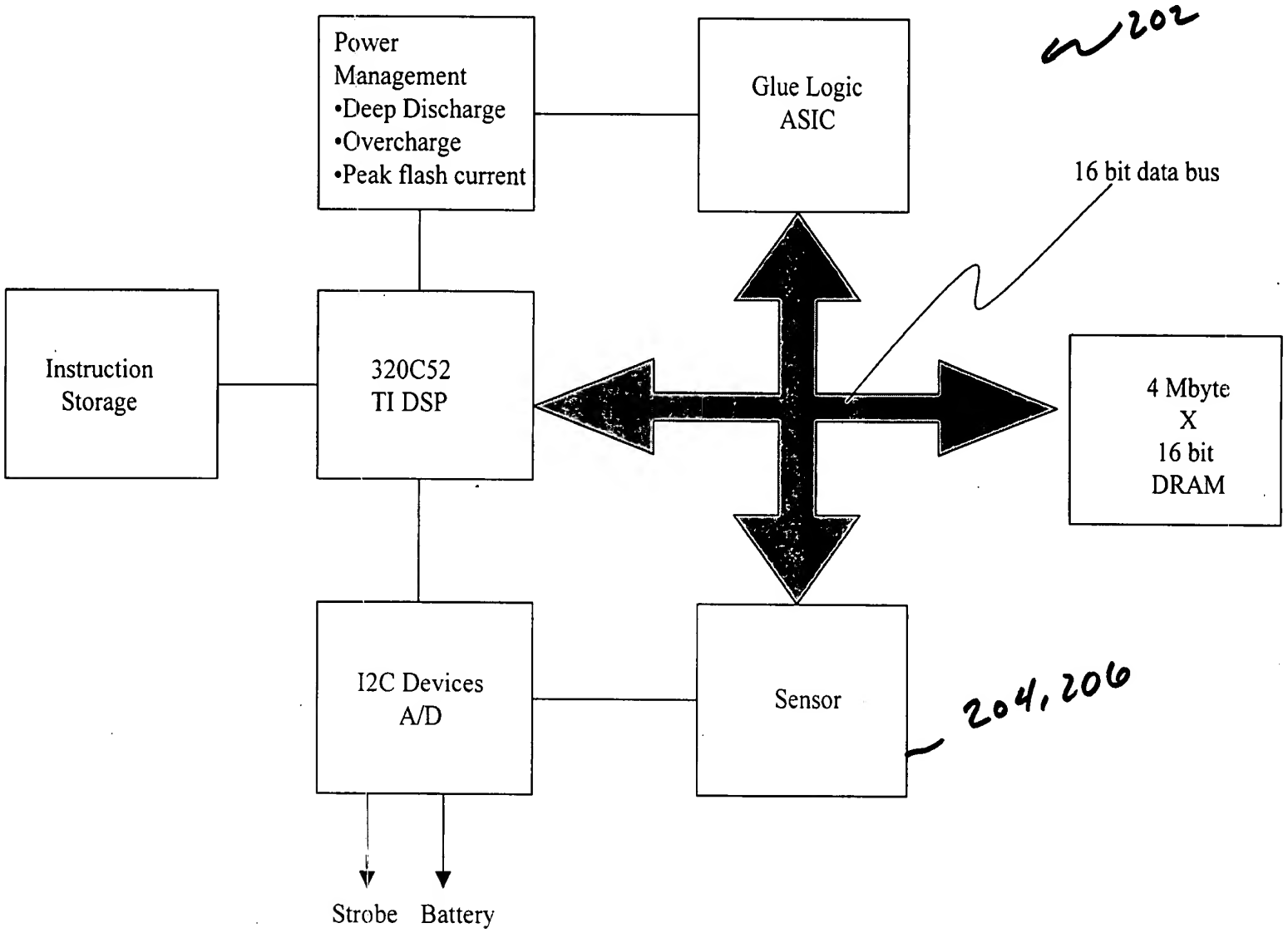

FIG. 16

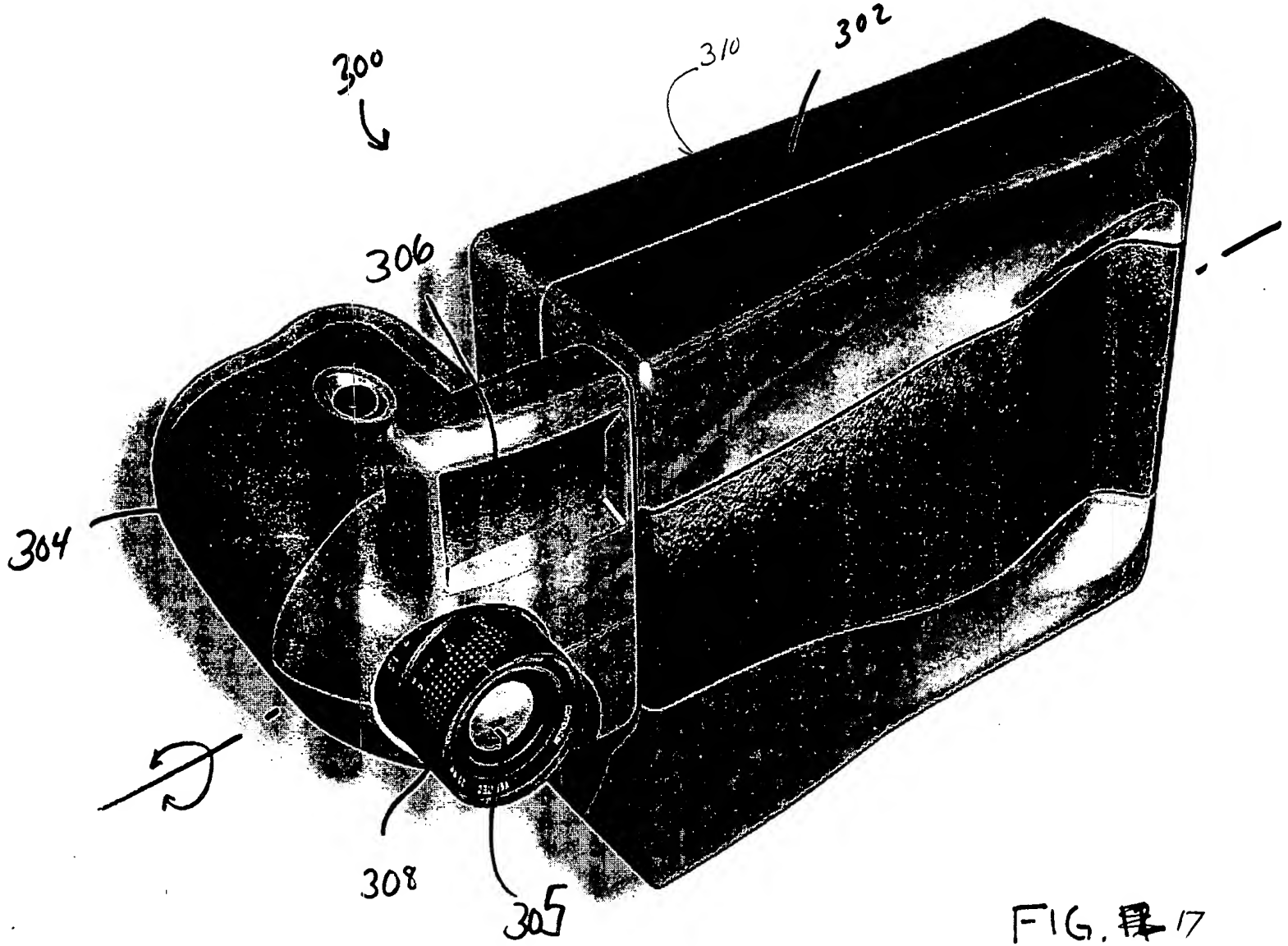

FIG. 17